

Weekly pertussis update for Washington State

Washington State Department of Health

2019 year-to-date (YTD) confirmed and probable cases reported through 12/14/2019 (week 50).

This update summarizes reports of pertussis in persons with 2019 onsets received by local health jurisdictions (LHJs) during weeks 1 – 50 made visible to Washington State Department of Health (DOH) – Communicable Disease Epidemiology, and containing sufficient information for a case classification to have been assigned.

There have been a total of 498 cases reported statewide through week 50, compared to 591 cases reported in 2018 during the same time period. Dates for the 2019/2018 comparison were based on LHJ notification date.

Figure 1: Number of Pertussis Cases Reported in Washington State by Notification Week: 2018 vs 2019

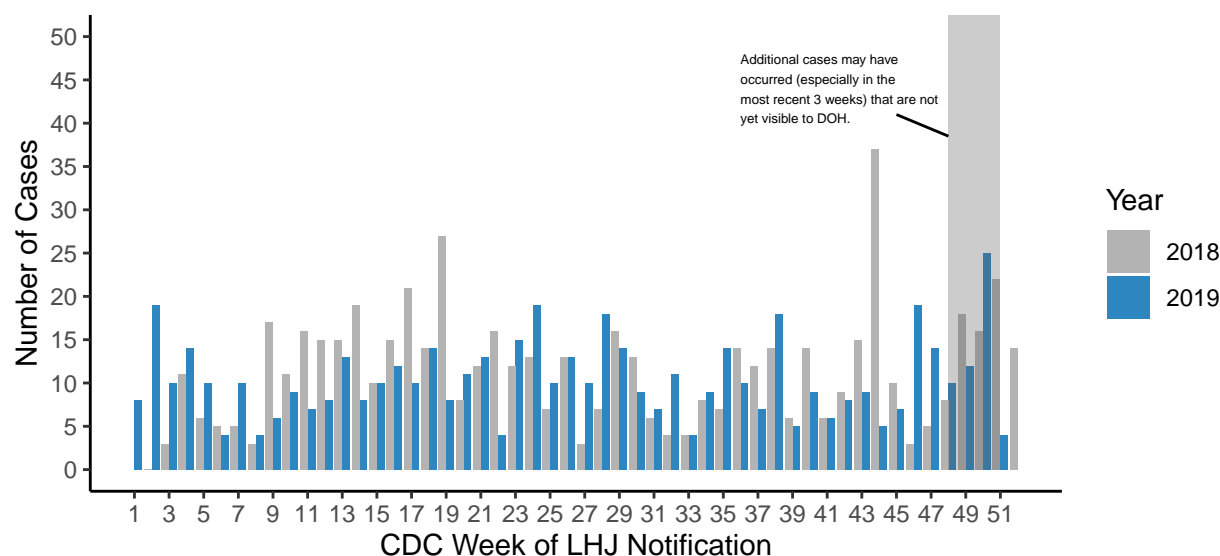
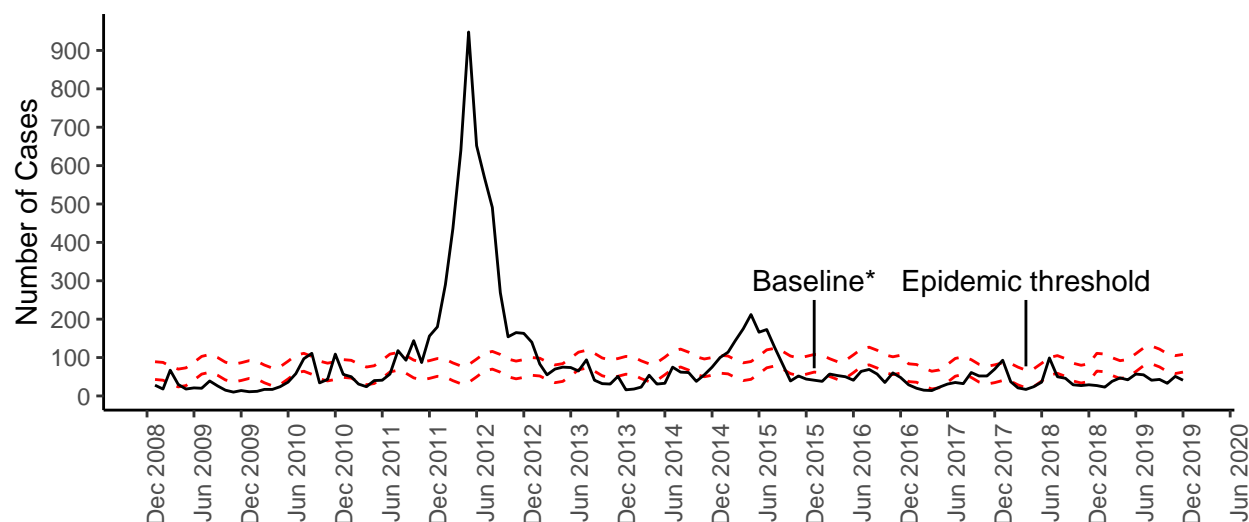


Figure 2: WA State Pertussis Cases Reported by Month and Year with Projected Baseline and Epidemic Thresholds, 2009-2018 and 2019 (YTD)



*Monthly data values from the 2012 epidemic period were not used to project the baseline and epidemic threshold.

- Among 28 counties with pertussis activity in 2019, the number of pertussis cases reported in a given county ranges from 1 to 115 and county-level YTD incidence rates range from 0.8 to 89.9 per 100,000 persons (see Table 1).
 - The median and mean county-level incidence rates in counties reporting pertussis activity are 5.7 and 11.7 per 100,000 persons, respectively.
- 11 counties have reported no pertussis this year.

The overall YTD incidence rate is 6.7 pertussis cases per 100,000 Washington residents, with an incidence rate among infants under one year of age of 28.8 cases per 100,000 (see Table 2).

Of 26 infants under one year of age reported as pertussis cases, 9 have been hospitalized. 18 of these infants were old enough on their dates of onset to have received a first dose of pertussis-containing vaccine, and 4 (22%) had received at least one dose.

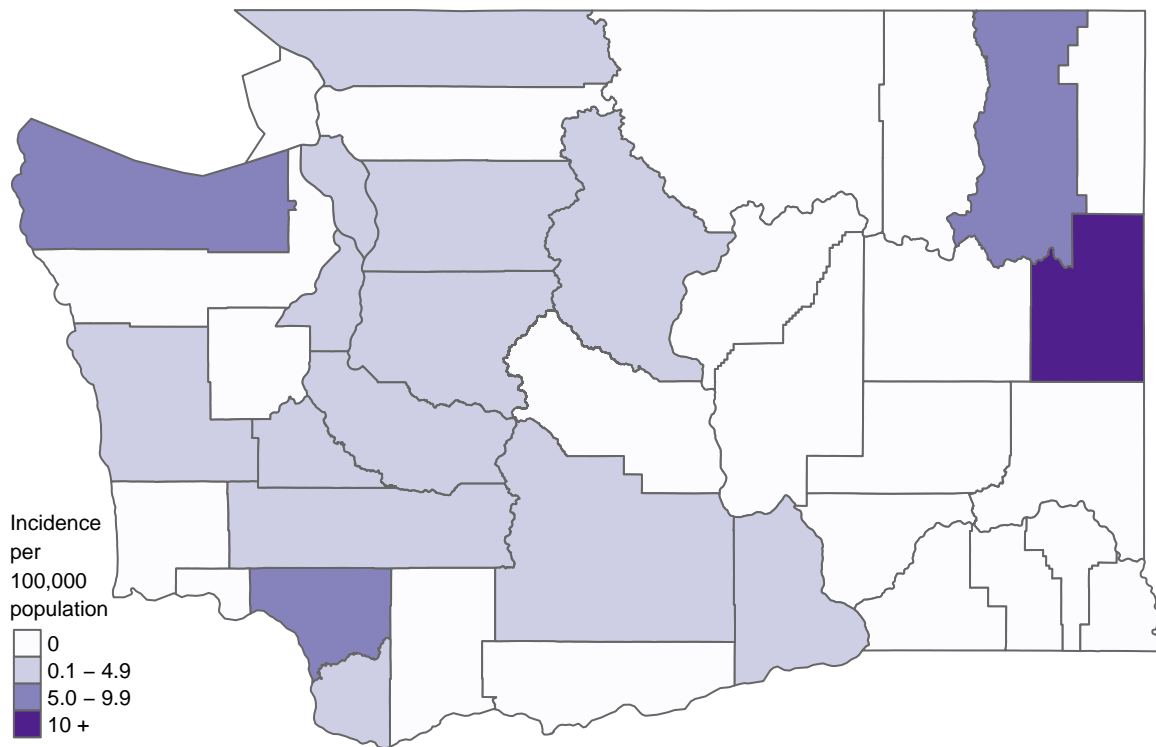
Table 1: WA State Pertussis Cases by County, 2019 YTD

County	Number of Cases	OFM 2018 Population	Rate per 100,000 persons
Clark	115	479,503	24.0
Spokane	113	507,949	22.2
Pierce	58	872,227	6.6
King	47	2,190,200	2.1
Cowlitz	37	107,308	34.5
Whatcom	28	220,350	12.7
Snohomish	17	805,117	2.1
Lewis	16	78,379	20.4
Thurston	10	281,697	3.5
Ferry	7	7,784	89.9
Stevens	7	45,030	15.5
Kitsap	6	267,118	2.2
Clallam	5	75,132	6.7
Island	4	83,858	4.8
Okanogan	4	42,488	9.4
Walla Walla	4	61,800	6.5
Yakima	4	254,500	1.6
Benton	2	197,419	1.0
Chelan	2	77,796	2.6
Grant	2	97,356	2.1
Mason	2	64,021	3.1
Pend Oreille	2	13,541	14.8
Douglas	1	42,119	2.4
Franklin	1	92,542	1.1
Grays Harbor	1	73,607	1.4
Lincoln	1	10,807	9.3
Skagit	1	126,516	0.8
Wahkiakum	1	4,102	24.4

Table 2: WA State Pertussis Cases by Age Group, 2019 YTD

Age Group	OFM 2018 Population	Number of Cases	Rate per 100,000 persons	% of cases by age group
< 1	90,275	26	28.8	5
1 - 4	364,795	128	35.1	26
5 - 9	470,076	88	18.7	18
10 - 13	375,899	67	17.8	13
14 - 18	459,392	101	22.0	20
19 - 24	582,450	25	4.3	5
25 - 44	2,002,821	33	1.6	7
45 - 64	1,908,392	16	0.8	3
65+	1,173,467	14	1.2	3
All ages	7,427,567	498	6.7	

Figure 3: Pertussis Incidence Rates by County, Past 12 Weeks (Weeks 38 to 50)



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